

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Gainey Ranch Golf Club
7600 East Gainey Club Drive
Scottsdale, AZ 85258

File Number: 93641
Date Received: 03/11/2025
Date Reported: 03/13/2025

Submitted By: Soil and Water Consulting

Lab Number	0040			0041			
Description	LAKES COURSE			LAKES COURSE			
	TEE 1			FAIRWAY 1			
pH	8.3			8.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	1702			1222			
Chloride	490			280			
Nitrate (NO3-N)	0.8			< 0.5			
Bicarbonate	349.01			273.79			
Sulfur	162.53			97.27			
Phosphorus	2.61			3.88			
Calcium	140.16	6.99	19.49	77.72	3.88	16.13	
Magnesium	58.51	4.81	13.41	31.83	2.62	10.89	
Potassium	57.06	1.46	4.07	51.74	1.32	5.50	
Sodium	520.31	22.62	63.04	373.11	16.22	67.48	
TOTAL		35.89	100		24.04	100	
Boron	0.69			0.60			
Iron	0.88			3.97			
Manganese	0.11			0.20			
Copper	0.18			0.09			
Zinc	0.13			0.12			
Aluminum	1.28			6.95			
Ammonium (NH4-N)	4.7			2.8			
ESP (calculated)	11.09			10.73			
SAR (calculated)	9.31			9.00			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0042
Description	LAKES COURSE GREEN 1

pH	8.2
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	961					
Chloride	204					
Nitrate (NO3-N)	< 0.5					
Bicarbonate	175.89					

Sulfur	95.71					
Phosphorus	4.09					
Calcium	56.82	2.84	14.52			
Magnesium	26.02	2.14	10.96			
Potassium	42.55	1.09	5.57			
Sodium	309.72	13.47	68.95			
TOTAL		19.53	100			

Boron	0.42
Iron	0.86
Manganese	0.09
Copper	0.11
Zinc	0.06
Aluminum	1.31
Ammonium (NH4-N)	0.8

ESP (calculated)	10.18
SAR (calculated)	8.54

* Soluble Salts: mmhos/cm = ppm / 640

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Submitted By: Soil and Water Consulting

Lab Number	0043
Description	DUNES COURSE GREEN 1

pH	8.2
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	947					
Chloride	214					
Nitrate (NO3-N)	< 0.5					
Bicarbonate	177.10					

Sulfur	86.66					
Phosphorus	2.72					
Calcium	49.41	2.47	13.66			
Magnesium	22.76	1.87	10.37			
Potassium	39.31	1.01	5.57			
Sodium	292.28	12.71	70.40			
TOTAL		18.05	100			

Boron	0.29					
Iron	1.09					
Manganese	0.08					
Copper	0.08					
Zinc	0.03					
Aluminum	1.55					
Ammonium (NH4-N)	4.2					

ESP (calculated)	10.29
SAR (calculated)	8.63

* Soluble Salts: mmhos/cm = ppm / 640